

U.S. DEPARTMENT OF COMMERCE
PATENT AND TRADEMARK OFFICE

ATTY. DOCKET NO.
SPO-112

SERIAL NO.
09/762.842

JUL 11 2001

(Use several sheets if necessary)

APPLICANT(S). Akira Murasugi, Yukio Asami, Isao Kido,
Hideshi Kumai

FILING DATE
February 12, 2001

| | |
|----------------|------------------|
| GROUP ART UNIT | not yet assigned |
|----------------|------------------|

U.S. PATENT DOCUMENTS

[illegible]

FOREIGN PATENT DOCUMENTS

| FOREIGN PATENT DOCUMENTS | | | | | | | | | | | | | | |
|--------------------------|----|-----------------|----|--|--|--|--|--|------|---------|-------|----------|-------------|--|
| | | DOCUMENT NUMBER | | | | | | | DATE | COUNTRY | CLASS | SUBCLASS | TRANSLATION | |
| | | YES | NO | | | | | | | | | | | |
| | AH | | | | | | | | | | | | | |
| | AI | | | | | | | | | | | | | |
| | AJ | | | | | | | | | | | | | |
| | AK | | | | | | | | | | | | | |
| | AL | | | | | | | | | | | | | |

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

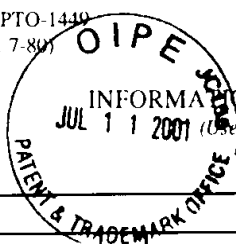
| OTHER DOCUMENTS including Name, Date, Volume, Page, etc. | | |
|--|----|---|
| ✓ | AM | Kurjan, Janet and Ira Herskowitz (October 1982) "Structure of a Yeast Pheromone Gene (MF α): A Putative α -Factor Precursor Contains Four Tandem Copies of Mature α -Factor" <i>Cell</i> 30:933-943. |
| ↓ | AN | Winther, Jakob R. and Poul Sorensen (October 1991) "Propeptide of carboxypeptidase Y provides a chaperone-like function as well as inhibition of the enzymatic activity" <i>Proc. natl. Acad. Sci. USA</i> 88:9330-9334. |
| | AO | Cramer, Jane Harris, Kristi Lea, Michael D. Schaber, Richard A. Kramer (January 1987) "Signal Peptide Specificity in Posttranslational Processing of the Plant Protein Phaseolin in <i>Saccharomyces cerevisiae</i> " <i>Molecular and Cellular Biology</i> 7(1):121-128. |
| | AP | Clare, J.J., F.B. Rayment, S.P. Ballantine, K. Sreekrishna, M.A. Romanos (May 1991) "High-level Expression of Tetanus Toxin Fragment C in <i>Pichia Pastoris</i> Strains Containing Multiple Tandem Integrations of the Gene" <i>Bio/Technology</i> 9:455-460. |
| | AQ | Hinnen, Albert, James B. Hicks, and Gerald R. Fink (April 1978) "Transformation of yeast" <i>proc. Natl. Acad. Sci. USA</i> 75(4):1929-1933. |
| ↓ | AR | Cregg, James M., Thomas S. Vedvick, William C. Raschke (August 1993) "Recent Advances in the Expression of Foreign Genes in <i>Pichia pastoris</i> " <i>Bio/Technology</i> 11:905-910. |
| | AS | Tomomura, Mineko, Kenji Kadomatsu, Shyuichiro Matsubara, Takashi Muramatsu (June 1990) "A Retinoic Acid-responsive Gene, MK, Found in the Teratocarcinoma System" <i>The Journal of Biological Chemistry</i> 265(18):10765-10770. |

EXAMINER

DATE CONSIDERED

1/29/03

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Form PTO-1449
(REV. 7-80)U.S. DEPARTMENT OF COMMERCE
PATENT AND TRADEMARK OFFICEATTY. DOCKET NO.
SPO-112SERIAL NO.
09/762,842

INFORMATION DISCLOSURE STATEMENT

(Use several sheets if necessary)

APPLICANT(S): Akira Murasugi, Yukio Asami, Isao Kido,
Hideshi KumaiFILING DATE
February 12, 2001GROUP ART UNIT
not yet assigned

U.S. PATENT DOCUMENTS

| *EXAMINER INITIAL | DOCUMENT NUMBER | DATE | NAME | CLASS | SUBCLASS | FILING DATE IF APPROPRIATE |
|----------------------|-----------------|------|------|-------|----------|-------------------------------|
| | AA | | | | | |
| | AB | | | | | |
| | AC | | | | | |
| | AD | | | | | |
| | AE | | | | | |
| | AF | | | | | |
| | AG | | | | | |

FOREIGN PATENT DOCUMENTS

| | DOCUMENT NUMBER | DATE | COUNTRY | CLASS | SUBCLASS | TRANSLATION YES NO |
|--|-----------------|------|---------|-------|----------|-----------------------|
| | AH | | | | | |
| | AI | | | | | |
| | AJ | | | | | |
| | AK | | | | | |
| | AL | | | | | |

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

| | | |
|----|----|---|
| CQ | AM | Kadomatsu, Kenji, Mineko Tomomura and Takashi Muramatsu (March 30, 1988) "cDNA Cloning and Sequencing of a New Gene Intensely Expressed in Early Differentiation Stages of Embryonal Carcinoma Cells and In Mid-Gestation Period of Mouse Embryogenesis" <i>Biochemical and Biophysical Research Communications</i> 151(3):1312-1318. |
| | AN | Li, Yue-Sheng, Peter G. Milner, Anil K. Chauhan, Mark A. Watson, Ruth M. Hoffman, Charles M. Kodner, Jeffrey Milbrandt, Thomas F. Deuel (December 1990) "Cloning and Expression of a Developmentally Regulated Protein That Induces Mitogenic and Neurite Outgrowth Activity" <i>Science</i> 250:1690-1694. X |
| | AO | Becker, Daniel M. and Leonard Guarente (1991) "High-Efficiency Transformation of yeast by Electroporation" <i>Methods in Enzymology</i> 194:182-187. |
| | AP | Merenmies, Jussi and Heikki Rauvala (October 1990) "Molecular Cloning of the 18-kDa Growth-associated Protein of Developing Brain" <i>The Journal of Biological Chemistry</i> 265(28):16721-16724. |
| | AQ | Ito, Hisao, Yasuki Fukuda, Kousaku Murata, Akira Kimura (January 1983) "Transformation of Intact Yeast Cells Treated with Alkali Cations" <i>Journal of Bacteriology</i> 153(1):163-168. |
| | AR | Yokota, Chika, Shuji Takahashi, Akira Eisaki <i>et al.</i> (1998) "Midkine Counteracts the Activin Signal in Mesoderm Induction and Promotes Neural Formation" <i>J. Biochem</i> 123(2):339-346. |
| ✓ | AS | Kojima, Soichi, Hisako Muramatsu, Hiroshi Amanuma, Takashi Muramatsu (April 1995) "Midkine Enhances Fibrinolytic Activity of Bovine Endothelial Cells" <i>The Journal of Biological Chemistry</i> 270(16):9590-9596. |

EXAMINER

DATE CONSIDERED

1/29/03

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Form PTO-1449
(REV. 7-80)

INFORMATION DISCLOSURE STATEMENT

(Use several sheets if necessary)

U.S. DEPARTMENT OF COMMERCE
PATENT AND TRADEMARK OFFICEATTY. DOCKET NO.
SPO-112SERIAL NO
09/762,842APPLICANT(S): Akira Murasugi, Yukio Asami, Isao Kido,
Hideshi KumaiFILING DATE
February 12, 2001GROUP ART UNIT
not yet assigned

U.S. PATENT DOCUMENTS

| *EXAMINER INITIAL | | DOCUMENT NUMBER | DATE | NAME | CLASS | SUBCLASS | FILING DATE IF APPROPRIATE |
|----------------------|----|-----------------|------|------|-------|----------|-------------------------------|
| | AA | | | | | | |
| | AB | | | | | | |
| | AC | | | | | | |
| | AD | | | | | | |
| | AE | | | | | | |
| | AF | | | | | | |
| | AG | | | | | | |

FOREIGN PATENT DOCUMENTS

| | | DOCUMENT NUMBER | DATE | COUNTRY | CLASS | SUBCLASS | TRANSLATION | |
|--|----|-----------------|------|---------|-------|----------|-------------|----|
| | | | | | | | YES | NO |
| | AH | | | | | | | |
| | AI | | | | | | | |
| | AJ | | | | | | | |
| | AK | | | | | | | |
| | AL | | | | | | | |

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

| | | |
|----|----|---|
| CQ | AM | Iwasaki, Wakana, Koji Nagata, Kideki Hatanaka <i>et al.</i> (1997) "Solution structure of midkine, a new heparin-binding growth factor" <i>The EMBO Journal</i> 16(23):6936-6946. |
| | AN | Kadomatsu, K., M. Hagihara, S. Akhter, Q-W Fan, H. Muramatsu and T. Muramatsu (1997) "Midkine induces the transformation of NIH3T3 Cells" <i>British Journal of Cancer</i> 75(3):354-359. |
| | AO | Wiren, Kristine M., John T. Potts, Jr., and Henry M. Kronenberg (December 1988) "Importance of the Propeptide Sequence of Human Preproparathyroid Hormone for Signal Sequence Function" <i>The Journal of Biological Chemistry</i> 263(36):19771-19777. |
| | AP | Muramatsu, Hisako, Hiroshi Hamada, Shigetsugu Noguchi, Yuko Kamada and Takashi Muramatsu (1985) "Cell-surface Changes During <i>in Vitro</i> Differentiation of Pluripotent Embryonal Carcinoma Cells" <i>Developmental Biology</i> 110:284-296. |
| | AQ | Weissman, Jonathan S. and Peter S. Kim (November 1992) "The Pro Region of BPTI Facilitates Folding" <i>Cell</i> 71:841-851. |
| | AR | Chen, Yee-Hsiung, Jen Tsi Yang, Hugo M. Martinez (1972) "Determination of the Secondary Structures of Proteins by Circular Dichroism and Optical Rotatory Dispersion" <i>Biochemistry</i> 11(22):4120-4131. |
| ↓ | AS | |

EXAMINER

DATE CONSIDERED

1/29/03

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.